

Applicants: George Brainard
Serial No.: 09/853,428
Filed: May 10, 2001
For: PHOTORECEPTOR SYSTEM FOR MELATONIN REGULATION AND PHOTOTHERAPY

Group: 3739
Examiner: Roy Dean Gibson

In The Claims

- Claim 1 (currently amended) A method of treating or preventing a light responsive disorder in a mammal, comprising administration of a therapeutically effective amount of light to said mammal, said light being generated by a light system, wherein said light system emits a balance of wavelengths to stimulate a circadian, photoneural, or neuroendocrine system of said mammal, said balance of wavelengths having a peak sensitivity ranging from 425—505 435 – 488 nm.
- Claim 2 (original) The method of Claim 1, wherein said light responsive disorder is at least one of the group of seasonal affective disorder (SAD), a sleep disorder, circadian disruption, eating disorders, menstrual cycle disorders, non-specific alerting or performance deficits, hormone-sensitive cancers, or cardiovascular disorders.
- Claim 3 (currently amended) A method of minimizing circadian and neuroendocrine stimulation or disruption ~~treating a light responsive disorder~~ in a mammal, comprising administration of a therapeutically effective amount of light to said mammal, said light being generated by a light system, wherein said light system excludes emission of a balance of wavelengths to stimulate a circadian, photoneural, or neuroendocrine system of said mammal, said balance of wavelengths having a peak sensitivity ranging from 425—505 435 – 488 nm.
- Claim 4 (canceled)
- Claim 5 (currently amended) A light system, comprising at least one light source, said light source emitting a balance of wavelengths to stimulate a mammalian circadian, photoneural, or neuroendocrine system, said balance of wavelengths having a peak sensitivity ranging from 425—505 435 – 488 nm.
- Claim 6 (currently amended) A light system, comprising at least one light source, said light source excluding emission of a balance of wavelengths to stimulate a mammalian

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circadian, photoneural, or neuroendocrine system, said balance of wavelengths having a peak sensitivity ranging from ~~425—505~~ 435 – 488.

Claim 7 (canceled)

Claim 8 (canceled)

Claim 9 (canceled)

Claim 10 (canceled)

Claim 11 (currently amended) A method of treating a light responsive disorder in a mammal, comprising administration of a therapeutically effective amount of light to said mammal, said light being generated by a light system, wherein said light system comprises at least one light source and at least one transparent material component, said light source emitting light through said transparent material component, said transparent material component comprising at least one light filtering component, said light filtering component specifically transmitting a balance of wavelengths to stimulate a circadian, photoneural, or neuroendocrine system of said mammal, said balance of wavelengths having a peak sensitivity ranging from ~~425—505~~ 435 – 488 nm.

Claim 12 (original) The method of Claim 11, wherein said light responsive disorder is at least one of the group of seasonal affective disorder (SAD), a sleep disorder, circadian disruption, eating disorders, menstrual cycle disorders, non-specific alerting or performance deficits, hormone-sensitive cancers, or cardiovascular disorders.

Claim 13 (currently amended) A method of treating a light responsive disorder in a mammal, comprising administration of a therapeutically effective amount of light to said mammal, said light being generated by a light system, wherein said light system comprises at least one light source and at least one translucent material component, said light source emitting light through said translucent material component, said

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translucent material component comprising at least one light filtering component, said light filtering component specifically transmitting a balance of wavelengths to stimulate a circadian, photoneural, or neuroendocrine system of said mammal, said balance of wavelengths having a peak sensitivity ranging from ~~425-505~~ 435 - 488 nm.

Claim 14 (original) The method of Claim 13, wherein said light responsive disorder is at least one of the group of seasonal affective disorder (SAD), a sleep disorder, circadian disruption, eating disorders, menstrual cycle disorders, non-specific alerting or performance deficits, hormone-sensitive cancers, or cardiovascular disorders.

Claim 15 (original) A method of treating a light responsive disorder in a mammal, comprising administration of a therapeutically effective amount of light to said mammal, said light being generated by a light system, wherein said light system comprises at least one light source and at least one transparent material component, said light source emitting light through said transparent material component, said transparent material component comprising at least one light filtering component, said light filtering component specifically blocking a balance of wavelengths to stimulate a circadian, photoneural, or neuroendocrine system of said mammal, said balance of wavelengths having a peak sensitivity ranging from 425 - 505 nm.

Claim 16 (canceled)

Claim 17 (currently amended) A method of minimizing circadian and neuroendocrine stimulation or disruption ~~treating a light responsive disorder~~ in a mammal, comprising administration of a therapeutically effective amount of light to said mammal, said light being generated by a light system, wherein said light system comprises at least one light source and at least one translucent material component, said light source emitting light through said translucent material component, said

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translucent material component comprising at least one light filtering component, said light filtering component specifically blocking a balance of wavelengths to stimulate a circadian, photoneural, or neuroendocrine system of said mammal, said balance of wavelengths having a peak sensitivity ranging from 425 - ~~5055~~ 505 nm.

Claim 18 (canceled)

Claim 19 (canceled)